

Amendments to Claims

1. (Currently Amended) A plasticized polyvinyl butyral (PVB) composition containing polyvinyl butyral having from about 17 wt% to about 23 wt% residual hydroxyl, plasticizer in an amount of from about 30 to about 50 parts per hundred (pph) PVB polyvinyl butyral, and an adhesion control agent comprising a mixture of potassium and magnesium salts in a ratio that is in a range of from about ~~0.05~~ 4:1 to about 5:1 (weight:weight, potassium:magnesium), ~~and~~ wherein the salts are included in a total concentration of ~~less than~~ up to about 1000 parts per million (ppm) based on the total weight of the composition.

2. (Cancelled)

3. (Currently Amended) ~~The PVB composition of Claim 2~~ A plasticized polyvinyl butyral composition containing polyvinyl butyral having from about 17 wt% to about 23 wt% residual hydroxyl, plasticizer with tetraethylene glycol di(2-heptanoate) in an amount of from about 30 to about 50 parts per hundred (pph) PVB polyvinyl butyral, and an adhesion control agent comprising a mixture of potassium and magnesium salts in a ~~wherein the ratio that is in a range of from about 2:1 to about 5:1 (weight:weight, potassium:magnesium), wherein the salts are included in a total concentration of up to about 1000 parts per million (ppm) based on the total weight of the composition.~~

4. (Currently Amended) The plasticized PVB polyvinyl butyral composition of Claim 3 wherein the ratio is from about 3:1 to about 5:1.

5. (Currently Amended) The plasticized PVB polyvinyl butyral composition of Claim 4 wherein the ratio is from about 4:1 to about 5:1.

6. (Currently Amended) The plasticized polyvinyl butyral composition of Claim 1 wherein the salts are included in a total concentration of from about 200 to about 1000 ppm.

7. (Currently Amended) The plasticized polyvinyl butyral composition of Claim 6 ~~3~~ wherein the salts are included in a total concentration of from about ~~200~~50 to about ~~900-1,000~~ ppm.

8. (Currently Amended) The plasticized polyvinyl butyral composition of Claim ~~7~~ 1 wherein the salts are included in a total concentration of from about 300 to about 800 ppm.

9. (Cancelled)

10. (Cancelled)

11. (Currently Amended) The plasticized PVB polyvinyl butyral composition of Claim ~~40~~ 3 wherein the ratio is from about 3:1 to about 5:1.

12. (Currently Amended) The plasticized PVB polyvinyl butyral composition of Claim 11 wherein the ratio is from about 4:1 to about 5:1.

13. (Currently Amended) A method for controlling adhesion of PVB polyvinyl butyral to glass in a glass/polyvinyl butyral PVB laminate comprising the step: mixing an adhesion control agent with polyvinyl butyral PVB and a plasticizer to obtain a plasticized PVB polyvinyl butyral composition, wherein the adhesion control agent comprises a mixture of potassium and magnesium salts in a ratio that is in the range of from about ~~0.05~~ 4:1 to about 5:1 (weight:weight, potassium:magnesium) and wherein the salts are included in a concentration of ~~less than~~ up to about 1000 parts per million (ppm) based on the total weight of the plasticized PVB polyvinyl butyral composition.

14. (New) A method for controlling adhesion of polyvinyl butyral to glass in a glass/polyvinyl butyral/glass laminate comprising the steps:

- a. mixing an adhesion control agent with polyvinyl butyral and a plasticizer to obtain a plasticized polyvinyl butyral composition, wherein the adhesion control agent comprises a mixture of potassium and magnesium salts in a ratio that is in the range of from about 4:1 to about 5:1 (weight:weight, potassium:magnesium) and wherein the salts are included in a concentration of up to about 1000 parts per million (ppm) based on the total weight of the plasticized polyvinyl butyral composition;
- b. forming a sheet from the plasticized polyvinyl butyral composition; and
- c. laminating the sheet to glass sheets to form a glass/polyvinyl butyral/glass laminate.

15. (New) The method of Claim 14 wherein the forming a sheet comprises co-extruding the plasticized polyvinyl butyral composition at a temperature of about 175°C to about 225°C.

16. (New) The method of Claim 14 wherein the polyvinyl butyral has from about 17 wt% to about 23 wt% residual hydroxyl and the polyvinyl butyral composition contains the plasticizer in an amount of from about 30 to about 50 parts per hundred (pph) polyvinyl butyral.

17. (New) The plasticized polyvinyl butyral composition of Claim 1 wherein the magnesium salt is a carboxylate salt obtained from an acid selected from the group consisting of acetic acid, formic acid, citric acid, stearic acid, 2-ethyl hexanoic acid, 2-ethyl butyric acid, heptanoic acid, propanoic acid, pentanoic acid, hexanoic acid, heptanoic acid and lauric acid.

18. (New) The plasticized polyvinyl butyral composition of Claim 1 wherein the potassium salt is a carboxylate salt obtained from an acid selected from the group consisting of acetic acid, formic acid, citric acid, stearic acid, 2-ethyl hexanoic acid, 2-ethyl butyric acid, heptanoic acid, propanoic acid, pentanoic acid, hexanoic acid, heptanoic acid, and lauric acid.

19. (New) The plasticized polyvinyl butyral composition of Claim 17 wherein the potassium salt is a carboxylate salt obtained from an acid selected from the group consisting of acetic acid, formic acid, citric acid, stearic acid, 2-ethyl hexanoic acid, 2-ethyl butyric acid, heptanoic acid, propanoic acid, pentanoic acid, hexanoic acid, heptanoic acid, and lauric acid.

20. (New) The plasticized polyvinyl butyral composition of Claim 1 wherein the plasticizer is selected from the group consisting of diesters obtained by the reaction of triethylene glycol or tetraethylene glycol with aliphatic carboxylic acids having from 6 to 10 carbon atoms, and diesters obtained from the reaction of sebacic acid with aliphatic alcohols having from 1 to 18 carbon atoms.

21. (New) The plasticized polyvinyl butyral composition of Claim 19 wherein the plasticizer is selected from the group consisting of tetraethylene glycol di(2-heptanoate) (4G7), triethylene glycol di(2-ethylhexanoate) (3GO) or dibutyl sebacate (DBS).

22. (New) The plasticized polyvinyl butyral composition of Claim 1 wherein the plasticizer is triethylene glycol di(2-ethylhexanoate).

23. (New) The plasticized polyvinyl butyral composition of Claim 19 wherein the plasticizer is triethylene glycol di(2-ethylhexanoate).

24. (New) The plasticized polyvinyl butyral composition of Claim 19 wherein the plasticizer is dibutyl sebacate (DBS).

25. (New) The plasticized polyvinyl butyral composition of Claim 20 wherein the plasticizer is contained in an amount of about 30 to about 45 pph polyvinyl butyral.

26. (New) The plasticized polyvinyl butyral composition of Claim 21 wherein the plasticizer is contained in an amount of about 30 to about 40 pph polyvinyl butyral.

27. (New) The plasticized polyvinyl butyral composition of Claim 21 wherein the plasticizer is contained in an amount of about 32 to about 45 pph polyvinyl butyral.

28. (New) The plasticized polyvinyl butyral composition of Claim 1 wherein the polyvinyl butyral has about 18 wt% to about 21 wt% residual hydroxyl.

29. (New) The plasticized polyvinyl butyral composition of Claim 21 wherein the polyvinyl butyral has about 18.5 wt% to about 19.5 wt% residual hydroxyl.

30. (New) The plasticized polyvinyl butyral composition of Claim 1 further containing about 0.10 to about 0.70 pph by weight surfactants selected from the group consisting of sodium lauryl sulfate; ammonium lauryl sulfate; sodium dioctyl sulfosuccinate; ammonium perfluorocarboxylates having from 6 to 12 carbon atoms; sodium aryl sulfonates, adducts of chlorinated cyclopentadiene and maleic anhydride; partially neutralized polymethacrylic acid; alkylaryl sulfonates; sodium N-oleyl-N-methyl taurate; sodium alkylaryl polyether sulfonates; triethanolamine lauryl sulfate; diethyl dicyclohexyl ammonium lauryl sulfate; sodium secondary-alkyl sulfates; sulfated fatty acid esters; sulfated aryl alcohols; and the like.

31. (New) The plasticized polyvinyl butyral composition of Claim 21 further containing about 0.10 to about 0.70 pph by weight of polyvinyl butyral of surfactant selected from the group consisting of sodium lauryl sulfate, sodium dioctyl sulfosuccinate, sodium cocomethyl tauride, and decyl(sulfophenoxy)benzenesulfonic acid disodium salt.

32. (New) The plasticized polyvinyl butyral composition of Claim 23 further containing about 0.10 to about 0.70 pph by weight of polyvinyl butyral of sodium dioctyl sulfosuccinates.

33. (New) A method for controlling adhesion of polyvinyl butyral to glass in a glass/polyvinyl butyral laminate comprising the step: mixing an adhesion control agent with polyvinyl butyral and a tetraethylene glycol di(2-heptanoate) plasticizer to obtain a plasticized polyvinyl butyral composition, wherein the adhesion control agent comprises a mixture of potassium and magnesium salts in a ratio that is in the range of about 2:1 to about 5:1 (weight:weight, potassium:magnesium) and wherein the salts are included in a concentration of up to about 1000 parts per million (ppm) based on the total weight of the plasticized polyvinyl butyral composition.

34. (New) A method for controlling adhesion of polyvinyl butyral to glass in a glass/polyvinyl butyral/glass laminate comprising the steps:

- a. mixing an adhesion control agent with polyvinyl butyral and a tetraethylene glycol di(2-heptanoate) plasticizer to obtain a plasticized polyvinyl butyral composition, wherein the adhesion control agent comprises a mixture of potassium and magnesium salts in a ratio that is in the range of about 2:1 to about 5:1 (weight:weight, potassium:magnesium) and wherein the salts are included in a concentration of up to about 1000 parts per million

(ppm) based on the total weight of the plasticized polyvinyl butyral composition;

- b. forming a sheet from the plasticized polyvinyl butyral composition;
and
- c. laminating the sheet to glass sheets to form a glass/polyvinyl butyral/glass laminate.

35. (New) The method of Claim 34 wherein the adhesion of the laminate is in the range of from about 1000 N/cm^2 to about 1775 N/cm^2 .

36. (New) The method of Claim 34 wherein the polyvinyl butyral has from about 17 wt% to about 23 wt% residual hydroxyl and the polyvinyl butyral composition contains the plasticizer in an amount of from about 30 to about 50 parts per hundred (pph) polyvinyl butyral.